



WASTE-OIL FIRED EQUIPMENT By **EconoHeat**

OMNI Heaters - Raising the Bar



Recycle by cleanly burning used oils, a no-cost fuel, for free Heat, Air Conditioning and Hot Water.

Enjoy years of FREE HEAT, low maintenance and clean waste oil burning with our patented



When compared, OMNI offers more definable features providing unequaled performance and less maintenance at a competitive price. OMNI is clearly the superior brand of waste oil fired machinery.







Sales 800-255-1363 Fax 509-532-2093
5714 E. 1ST AVE. SPOKANE, WASHINGTON 99212
www.econoheat.com



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OMNI Heater Specifications

<u>Models</u>	 <u>OWH-150</u>	 <u>OWH-250</u>	 <u>OWH-350</u>	 <u>OWH-500</u>
BTU/HR Input	150,000	250,000	350,000	500,000
BTU/HR Output	120,000	215,000	300,000	410,000
Gallons per Hour	1.00	1.75	2.4	3.4
Voltage Requirements	115	115	115	115
Amps, Full Load	14.6	15.6	18.7	20.7
Fan Motor HP	1/4	1/3	2@1/4 ea	2@1/3 ea
Fan Motor RPM	1,075	1,075	1,075	1,075
Fan diameter/pitch	18/36	24/18	18/36	24/18
CFM (Free Air)	3,762	4,466	6,275	9,001
CFM w/ductwork Per 100 feet	380	2000	1600	3701
Effective Air Flow	50 ft	60 ft	70 ft	100 ft
Flue Size	8"	8"	8"	10"
Weight With Burner	240 lbs	365 lbs	400 lbs	660 lbs
Shipping Weight	375 lbs	535 lbs	575 lbs	725 lbs
Dimensions L/H/W Inches	46/22/35	44/30/28.5	54/29.5/28.5	72/38/34.5
Shipping Dimensions	64.5/30/49	64.5/39/49	76/38/49	92/44/50

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OMNI Standard Features	Other Manufacturer
Non-Carboning Heater Block (Industry's Only).	N/A
Non - Welded, Floating Crimped Heat Exchangers.	N/A
Fully Self-Contained Burner (onboard oil and air pump) *Optional Equipment (Industry Only)	N/A
On-Burner Air Compressor	one other
Burns 90 Weight and Synthetic Oils	N/A
Heaters and Boilers are both backed by the industry's most comprehensive full 12 Year Non-Prorated Limited Warranty (Industry's Only)	N/A
Stainless Steel Heat Exchangers	N/A
Burner and Combustion Chamber End Plate Doors Both Swing Out for Easy Pass-Through Cleaning	N/A
Longest burn path provides the industry's highest efficiency (up to 85%) and eliminates the need for a target wall	N/A
Flame Control System controls fuel by volume. No adjustments needed for various viscosities	N/A
Bi-Directional Heat Throw Capability	N/A

What You Would Have to Pay a Competitor to Match OMNI Standard Features

- Annual Burner Repair Kit: \$200+
- Optional On-Board Air Compressor: \$300-\$600+ Additional Compressor Increases Electrical Demand - Costs: \$??
- Optional Oil Flow Control Supply Pump: \$400+
- Additional Costs for Ductible Units: \$300 - \$800+
- Maximum Burn 50 Weight
- Optional Longer Life Stainless Steel Construction: \$300+
- Annual or MORE Pre-heater Carbon Flush Service Costs: \$??
- More Service Technician Costs such as Travel and Time: \$??

There Is No Comparison Between OMNI & the Other Brands. We Continue to Transcend & Evolve While Others Grow Stale. The Least Amount of Maintenance With the Highest Return On Investment.

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Unparalleled Performance Employing our Patented Flame Control System



Complete System



Industry's ONLY Non-Carboning **Oil Pre-heater block with Solid State circuit board controller**. These items precisely control the oil and air temperatures to insure stable viscosity for optimum control of the flame resulting in a thorough burn. The heater block **never carbons** or needs to be removed for cleaning. Industry normal annual parts kit not needed with Omni's system! Readjustment of electrodes and nozzle replacement every 5 years is all that is needed due to erosion only.

Reverse Angle View



Cleanable Strainer Oil Filter - removal of one nut for screen access

Oil Pressure Gauge - Bench mark indicator for proper flame length adjustment and filter pump screen or valve cleaning requirements

Rotary Style Gear waste oil pump - can push 100's of feet

Oil Primer Switch

Oil Shut-off Valve - eliminates start delays due to possible drain back

Adjustable Motor Speed - initial set up only - once set, no adjustment needed thereafter

Oil Flow Control Supply Pump has the ability to control flame even when various viscosities are used - furnace or stove oil to 90 weight straight - flame remains stable

Inline Breaker

Low Voltage Room Thermostat Control



Oil Flow Control Supply Pump with variable DC Motor

All Models Come Standard With These Items and Features for Never Seen Before Performance, Ease of Operation, and Service

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WASTE-OIL FIRED EQUIPMENT By EconoHeat

Easy Maintenance When Needed



OWH-350
Rear View



500 Model

Large lift out cabinet door (150/250/350/500 models) and a hinged end plate cover opening (250/350/500 models) makes for easy access to combustion chamber & heater exchangers for occasional vacuuming of ash deposit accumulation. Under normal operating conditions, seasonal cleaning is required. Some oils require only once a year cleaning.



Maintenance Free
On-burner air compressor

Swing out burner door, no fuel or air lines to disconnect. Removal of one nut and electrical safety plug allows easy access to flame end cone and nozzle for quick service.

Our on-burner air compressor eliminates overnight risk to your shop compressor.

Hinged Cover opening provides quick access to heater block and circuit board if needed.



Crimped Stainless Steel Heat Exchangers

The seam construction eliminates the possibility of stress cracks when welded due to a heat effected zone. This can occur if overheated when flue gas passages may become blocked if not cleaned periodically or insufficient draft was present caused by inaccurate installation.



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OMNI ADVANTAGES

Omni waste oil heaters are a “hands off” system – not requiring constant cleaning and adjustments. Operations that the others would have you believe are standard procedures . With an Omni you can eliminate your costs of heating, avoid the liabilities of handling and storage placed upon you the oil generator by the EPA. With all of these benefits, you can realize a full return on your investment quickly.

Stainless Steel Chamber Standard Omni.

Omni waste oil furnaces feature high grade stainless steel heat exchangers. Stainless steel is the longest lasting, most durable material available for high temp. applications. Other manufacturers use lower cost materials and try to compensate with thicker walls of interior steel.

Omni Burns Fuels From 90 Weight Gear Oil to Fuel Oils.

Omni's combination of oil preheat and oil flow control allow it to burn a wider range of fuel than other waste oil burners, with no adjustments.

Long Burn Path Provides High Efficiency And Eliminates The Need For a Target Wall.

Omni waste oil burners are up to 85% efficient. Our long burn path and oil flow control capabilities eliminate the need for a target wall. With others target walls are subject to direct exposure to flame and extreme temperature changes which destroy the target and require them to be replaced frequently.

Built In Air Compressor.

Omni includes a built in vane type oil-less compressor as standard equipment. Our compressor requires no maintenance and allows the unit to be operated 24 hr./day without an external air supply. We eliminate the risk of destroying a shop air compressor if an air line were to rupture.

State of the Art, Solid State Oil Preheat. Heats both the oil and air at the same time for optimum atomization (spray) and combustion.

Omni's patented system provides consistent oil temperature and viscosity to burner. Solid state controls allow only a three degree variance in oil temperature. This maintains oil viscosity and results in the most thorough, clean, and consistent burn available. Other manufactures mechanical preheat systems allow large temperature variances which cause varied fuel viscosity and inconsistent flame in combustion chamber resulting in uneven heat and quicker failure of chamber. This requires routine disassembly of the burner to SCRAPE out carbon build up in the oil heat block.

Patented Oil Flow System Controls Fuel by Volume.

Omni's patented flow control system regulates fuel by volume. Conventional waste oil burners use a preset pump and control fuel delivery with a fuel pressure regulator. This conventional system creates variables to fuel flow and cause over & under firing.

Swing Out Burner.

Allows easy access for cleaning of burner nozzle. Combustion chamber annual clean out is easy. Omni provides complete access to inside of combustion chamber and heat exchanger.

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Patented Oil Preheat System Eliminates the Need for Routine Clean Out of Carbon In Heat Block.

Omni's patented oil preheater uses advanced technology to eliminate the need for cleaning. Its superior design will not carbon.

Oil Filter is Reusable.

Oil filter replacement is never required, simply wash the reusable filter with solvent and replace in filter housing.

15 Year Warranty.

Omni waste oil furnaces are so reliable that they are backed by a 15 year limited warranty.

Econo Heat Made the First UL Approved Waste Oil Furnace.

Econo Heat is the industry leader in waste oil furnaces. Econo Heat manufactured the first waste oil furnace approved by Underwriter Laboratories in 1986.

High Limit Switch.

Overheat safety protection is standard equipment.

Circuit Breaker Protection on Motors.

Circuit breakers eliminate the need for replacing fuses.

Full Access Clean Out Panel.

Omni provides complete access to the inside of heat exchanger and combustion chamber through our full length clean out panel. Other manufactures provide only limited access or require clean out of chambers too small to reach.



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Here is a detail of the OWH-150 package, including the EC-250 and Flue Stack Kit.

The OWH-150, a 150,000 BTU furnace, uses up to 1.0 gal/h, should it run continuously. It requires only a 115-volt, 20 amp circuit; full load with the pump is 14.6 amps. The ¼ HP fans are 18 inch, running at 1075 RPM, and throw 3762 CFM (cubic feet per minute) of free air 50 feet.

As to venting the OWH-150 needs an 8-inch insulated class 'A' flue. With oil burners drafting is important so how you exit the building with your flue will determine if some type of draft reduction or induction will be necessary.

This shipping weigh of this unit is 435 lbs. Uncrated with the burner gun it weighs 240 lbs. It is 46" long by 22" tall & 35" deep. When you purchase the furnace ONLY, we ship complete with everything except the 3/8" copper tubing with flared fittings, for the oil suction line and oil feed line, the electrical to the box, and the flue stack. When you purchase the tank stand it comes with all your wiring and tubing in place, as well as a slot on the side of the tank for your pump. We also offer an MG Duravent 8-inch flue stack kit. When ordering the tank stand with the furnace and flue stack you have a complete turn key package.

The 250 gallon Tank / Stand is 11 gauge, heavy duty steel with the legs and arms for supporting the furnace, coming up from behind the tank (the legs), leaving you plenty of room on top and the elbow room to work on it. This unit weighs 525 lbs and is 51" long by 43.5" deep and 37" high.

There are 2 handles on the top to make for easy access to the inside of the tank. After taking off a few bolts the top of the tank can be removed to allow for easy access for a thorough cleanout or should you have to recover a fallen tool. There is a valve for draining off the water near the bottom, also.

The 8" Flue stack Kit has everything you need for up to 16 feet (to the eave) of stack. This kit is for 0/12 to 6/12 roof pitches; black single wall for inside (furnace to insertion point) and Stainless double wall for outside. For a steeper pitch you would only need the flashing for that pitch angle.

This package makes it easy to install. You will need to put the legs (for holding the furnace up) in the brackets in back of the tank and then connect the arms (that will hold the furnace) to the legs. Position the tank in the place you will want it to be permanent. Next, place the furnace on the arms (that you just put in place above the tank). Insure that it is secure and in proper position and level (where its final resting place is). Mount the burner to the furnace. Then place the pump on the bracket (shelf) provided, place the bracket with the pump onto the tank and begin connecting the fuel lines and the electrical from the pump to the burner gun. All that's left now is the flue and the 115 volts to the box. It couldn't be easier. When you're finished the furnace will sit approximately 12 feet up from the floor.

We have similar packages for our 250,000, 350,000 & 500,000 BTU furnaces. Tank sizes also come in 350 & 500 gallon. The OWH-500 can only use either the 350 or 500 gallon tank stand.

Please call me for pricing and sizing. I can help you with any questions you have.

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EconoHeat Inc.

Omni Unit Heaters 150, 250, 350, 500 Limited Warranty

Econo Heat (manufacturer) warrants to the purchaser of Unit Heaters listed above will be free from defects in materials and workmanship for the durations specified below, which duration begins on the date of delivery to the customer. Customer is responsible for maintaining proof of date of delivery.

If return is deemed necessary for warranty evaluation and determination of repair or replacement, unit heater is to be sent to the factory with freight prepaid. Econo Heat reserves the right to determine appropriate action for repair or replacement

No parts will be accepted by Econo Heat without RA# (return authorization number) clearly marked on outside of shipping package.

Obtaining RA# requires model and serial numbers, description of part being replaced and nature of defect. Call factory to receive RA#.

Warranty Covers:

1. Combustion Chamber and Heat Exchanger full Fifteen (15) years limited. *full repair or replacement, (Parts Only)
2. Oil Heater Block, Twenty (20) years. (Part Only)
3. Oil Heater Block Controller PCB, three (3) years. (Part Only)
4. All other components, one (1) year. (Parts Only)

This warranty is void if:

1. Warranty registration card is not returned within thirty (30) days of purchase.
2. Any part or component subject to abuse or altered from original manufactures specifications.
3. Installation not in accordance with instructions.
4. Has not been properly maintained, operated or has been misused.
5. Wiring not in accordance with diagram furnished with unit heater.
6. Unit heater is operated in the presence of chlorinated vapors.
7. Air through unit heater is not in accordance with rating plate and specifications

Warranty is limited to the original purchaser.

The above warranty is in lieu of all other warranties expressed or implied. Econo Heat does not authorize any person or representative to make or assume any other obligation or liability that is not in accordance with above warranty.

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Econo Heat is not responsible for any labor cost unless prior authorization in writing has been obtained.

NOTE: Combustion Chamber Warranty is specific to material and workmanship. Workmanship means

Econo Heat warranties the welds are good and will hold. Material means they won't corrode through due to sulfur in the ash that accumulates during operation. Warranty does not apply to units that experience overheating stress cracks. These are not incurred because the materials are inadequate for the application nor are they a result of a weld breaking loose because of bad penetration, which is easily recognized by the metal left beneath the weld. These cracks occur as a direct result of (1) improper draft, either by inadequate initial installation and setup which requires (a) establishing a proper draft during installation (b) back draft has occurred due to ash buildup, backing up hot gas passageways either in the exchangers, the stack, or both. (2) Over firing by setting oil supply pressure too high (see manual for proper setting) these are all cases of thermal overload.

* Under normal use only. If misuse or abuse is deemed apparent after inspection, warranty is void